THE QUAVER,

WITH WHICH IS PUBLISHED "CHORAL HARMONY."

A monthly Advocate of Popular Musical Education,

And Exponent of the Letter-note Method.

All Correspondence and Advertisements to be forwarded to 20, Paternoster Row, London, E.C.

No. 5C.1

FEBRUARY 1, 1880.

One Penny.

THE

LETTER-NOTE METHOD,

An easy System which

TRAINS TO SING AT SIGHT

FROM THE ORDINARY NOTES.

Its Tenets are these:

- 1. That METHOD involves a careful Graduation of the lessons, a thorough Treatment of every point studied, and an Elucidation of Principles as well as Facts.
- 2. That the STAFF-NOTATION, taking it all round, is the BEST yet invented affording peculiar advantages to the PLAYER, and also to the SIGHT-SINGER who understands his work.
- 3. That the best systems of sight-singing are those founded upon the TONIC DO principle, because the KEY is a mere accident, but the SCALE is the TUNE, and it is by the relation which the sounds bear to the Tonic and to each other (not by their pitch upon the Stave) that the Vocalist sings.
- 4. That the easiest possible mode of teaching on this principle is that termed LETTER-NOTE, which appends the Sol-fa initials to the ordinary notes, and either withdraws the letters gradually, or otherwise trains the pupil to dispense with their aid.
- 5. That Letter-note provides the most direct INTRODUCTION possible to the staff notation, because the Pupil is trained from the OUTSET by means of the symbols employed in that notation.
- 6. That Letter-note, while it is legible by every Player, gives the Singer all the AID derivable from a specially contrived notation.
- 7. That the assistance of Letter-note in learning to sing is as LEGITIMATE and ADVANTAGEOUS as the "fingering" printed for the use of the Pupil-pianist.
- 8. That, although the habitual use of Letter-note is quite unnecessary to the matured Sight-singer, it increases the reading power of the YOUTHFUL and the UNSKILLED, enabling them to attain an early familiarity with a better class of music, and thus cultivating a higher musical taste.



The Pioneers of the Singing Movement .- (Continued from No. 48).

J. J. WAITE.



AITE may fairly be described as THE Psalmodist, for it was by his instrumentality and through him primarily, that the psalmody revolution of thirty years ago was effected. It was about the year 1850 that Waite, then

the year 1850 that wante, then dissenting minister at Ilminster, carried to he metropolis the Gospel of good music for he Chapel, and so well did he accomplish is work that within a very few years the hole system of Nonconformist psalmody ras remodelled, renovated, and improved—e-created, in fact. Previous to this date, such unes as "Devizes," "Lydia," "Cranbrook," Burnham," etc.—a florid, repeating, and iguing class of tune, now almost extinct—ere in universal use, and not in use merely, ut in downright abuse; for, until Waite lifted p his voice in protest, it was quite customary sing such tunes to any hymn of their own

metre, without so much as a thought as to whether the word or line which the tune necessarily repeated would bear such repetition without becoming nonsensical. But, so telling and truthful were Waite's strictures upon prevailing customs, so persuasive his eloquence in favour of "intelligent" congregational singing, and so convincing his practical lessons to the congregational singers themselves, that the "new views" carried everything before them; Cranbrook, Burnham, & Co. were discovered to be nuisances and crying evils, and their upholders old fogies and bores, -things and persons to be cut up, put down, or made away with by any means possible. It was just about this time that psalmody lecturers began to employ those stock anecdotes (whether real occurrences or events made to order, is uncertain) relating how a given hymn was sung to a stated tune which necessitated such an exhibition as this :-

"Send down sal-send down sal-send down salvation."

Or this :-

"And more eggs-more eggs-more eggs-more exalted strains."

sut what with Waite's ponderous artillery in he shape of lectures and monster singing lasses, and what with the light dropping fire of he pasquinaders, the old tunes were speedily attered out of recognition and out of exisence, or nearly so, for probably there are very ew chapels or churches in the kingdom where hey can still be heard.

Now, although ready to admit that Waite ad other reformers were quite right in their ode of procedure—because a great and long-stablished evil had to be remedied, for which only a drastic purge was effectual—we are not orepared to assert that the change has been n unmixed good: we have gained in some espects, but have lost in others. We have ertainly gained a purer, better, more intelligent and devotional rendering of the hymns, but we have at the same time lost some of the ervour and vigour of former days. According o our view, when the old tunes were disstablished, something else, securing similar dyantages but without their objectionable

features, should have been introduced to fill up the gap. The associations connected with those tunes were dear to the people; their style appealed directly to the feelings of the singers of that day, carrying home to their very hearts the sentiments of the words sung; and al-though the musician might term them "trash" and "vulgarity," they nevertheless had the property of drawing out the voice of the great congregation in a way which it was a real treat to listen to. This they effected by the liveliness and motion of their melody, by the little points of interest afforded the singers through the entry and re-entry of the various voiceparts, and by the repetitions of words or sentences-not "vain repetitions" when suitable hymns were chosen, but such as would tend by their iteration to heighten and deepen the impressions made by the words. To illustrate our meaning, suppose a hymn in which each verse has a "burden" which is the same in all, and that the setting of the music repeats it thus :-

Or thus; although, the specimen is 200 years old, and scarcely up to the modern standard (elegance:—

to

une

epe-

, 80

ires

his

ega-

tical

iem-

hing

Co.

ying

ores.

own,

sible.

lec-

lotes

ie to

nymn

tated

to fill

with

style

ingers

nearts

d al-

rash"

d the

great

treat

liveli-

little

rough

voice-

ds or

n suit-

would

eepen

o illus

which

same

repeats

andard

(Treble). "For certainly his mercies 'dure,"

(Bass). For certainly his mercies 'dure,"

(All). Most firm, (pause). Most firm and sure eternally."

And suppose, further, that a large congregation, numbering its thousands, able to render the music efficiently either by ear or by note, and having just listened to a rousing sermon delivered by some energetic preacher, rise to sing either of these as the concluding hymn of the evening service. The preceding portion of the verse having been sung straight through by the full strong voice of the whole congregagation, the soft clear tones of the females, like sounds from heaven, tell of God's enduring mercy; before they have finished this line, the answer of the men's deep voices comes like an earthly echo; once more the females sing their strain, but in a higher key, as if to emphasize the first assertion; a momentary silence, and the whole congregation unite in a tremendous unison on the words "Most firm"; another dead silence, and then the words are repeated in full harmony, and so on to the end of the line, with a vigour and emphasis which prove that the singers thoroughly feel what they utter. Thus, partly through the sermon and appropriateness of the hymn to the subject, and partly through the tune—the contrast and emulation of the parts, the antiphonal delivery, and the emphatic repetition of the words, which sends the idea home to every mind and clinches them there—the result is a heart-poured hymn or praise, a spontaneous burst of music, a general shout of joy and thanksgiving which do one good to participate in or to listen to.

Do not mistake our meaning, however: we are not arguing for the restoration of Burnham, Cranbrook and Co., for possibly these tunes might wholly fail either to please or to profit a modern congregation. But what we do argue for is this: that instead of adopting "rest and be thankful" as our motto, we proceed farther and carry out the reform to its legitimate consequences, these consequences Leing the total abolition of the still-prevailing practice of singing any hymn to any tune of its own metre and cast of sentiment-a proceeding never adopted in secular music except the commonest class-and the substitution therefor of anthemtunes or sacred part-songs, i.e. tunes sung to their own hymn only, which hymn they fit as a glove does the hand of its wearer. It is evident that, if this arrangement were adopted, there could no risk of our psalmody being marred by the abuse which Waite exposed and reformed, not even if the composer chose to repeat words or to employ fugal or other musical devices. Thanks to modern composers, we already possess many HYMN-TUNES to which

this compound term is really applicable, for they are hymns wedded to appropriate tunes 3 while their number is increasing, it resists with a congregations to take care that the knot which the musician has tied shall not be carelessly or ruthlessly undone.

But to return to the subject of our sketch At certain of the larger chapels in the metropolis, Waite opened simultaneous classes, caon course comprising six lectures and lessons in psalmody. The only printed book used was at small selection of church tunes from his "Hallujah"-a tune book in which the notes hul. the seven numerals printed underneath the stave, on a principle the same as that upont which we employ the sol-fa initials, "1" corresponding to the key-note. No instruction book in the theory of music was employed in these classes, nor indeed was there what we should now term a "method, " meaning thereby a progressive series of exercises and songs. combined with full directions and information for the guidance of teacher and pupil There was, however, system and method, ingonuity and good sense, in Waite's teaching gran ! it he did not carry his pupils farther than the practice of simple psalmody, his teach income far as it went, was excellent. Wai e's method consisted, first, in creating and fortening in the minds of his audience an ardent love for an ;ing and more especially for that kind which takes the form of good congregational as imody, engratting upon these a strong desire to acquire sight-singing skill. This his lectures were remarkably well fitted to accomple 2 and when precept was followed by practice in the shape of a well-pl nned and well-laught lesson, the result was invariably satisfactory both to teacher and pupil. Neither was Waite behind as regards modern teaching processes. as, for example, teaching by pattern, which was his almost invariable custom; and if he did not make use of time-names, he employed a device of similar nature, causing his pupils to divide into crotchets all the minims and longer notes of a tune.

Among the novelties which Waite introduced and popularized was the habit of singing with expression—altering the dempo and the degree of power so as to adapt the music to the changing sentiment of the words—a thing at that time quite new to congregational practice of the two also who started in the chapes of London the now almost universal practice of chanting—an innovation which, on account of existing sectarian prejudices, did not fail to encounter opposition. Waite, however, argued

that while the hymn tune permitted a congregation to utter God's thoughts in man's words, the chant did more, for it enabled us to sing God's thoughts in his own very words. Then, having proved that the chant was a good and useful thing, and having also taken care to show that it was congregationally a possible thing, he proceeded to combat the prejudices of his hearers by the further argument that, if the chant was a good and useful and possible thing to Nonconformists, the fact of its adoption by Episcopalians ought not to deter the former from employing it-a line of reasoning incontrovertible, certainly, but which draws a somewhat gloomy picture of the relations which existed between the Church and Chapel of thirty years ago. In fact, their want of harmony, and indeed downright antagonism, occasionally displayed itself in a very amusing way in the course of the campaign which Waite began: the following is an instance. At a then well-known and well-attended City chapel in the metropolis, a psalmody movement, the result of Waite's labours, was commenced, and at the opening meeting a selection of tunes, chants, and simple anthems was rendered by a very excellent choir. During the evening a minister of some suburban chapel, who had certain strong musical prejudices, having been called upon to address the meeting, took occasion to congratulate the audience upon the success of their efforts after good psalmody, and more especially upon the fact that it was the result of congregational efforts, and not those of a surpliced choiran institution which he, for one, was bound to denounce, etc., etc. Notwithstanding pretty audible expressions of disapproval, the speaker proceeded; but on resuming his seat became painfully aware that his remarks were pitched in the wrong key, upon which discovery he effected a rapid strategical movement and disappeared. It then leaked out that the singers consisted of some of the men and boy choristers of St. Paul's Cathedral assisted by the Chapel choir, and the liberality of the former in coming forward to help at a Nonconformist demonstration contrasted so favourably with the narrowness displayed by the speaker, that if the vote of the congregation had been taken there and then the zeal of the converts to the "new views" might have led them to condone any ecclesiastical innovation whatever, whether surpliced or otherwise. Thus the resistance to improvement shown in certain quarters, trhough the violence of its own elforts, sometimes became really helpful to the cause of musical progress

To be continued.

Mahe Quaber,

February 1st, 1880.

ITH this number is issued a small instalment of a new elementary work, the music of which will occupy two threepenny parts of 16 pages: it is intended to meet the requirements of those teachers who, having used the "Graduated Course" for eighteen consecutive winters, are now asking for an alternative work. Some teachers, when they have a book to their mind, prefer to keep to it, simply because they are thoroughly at home with it: others like to have a choice, and to them the new work will, it is hoped prove useful.

A slight alteration is made in the mode of applying the sol-fa initials: this occupies rather more space, but as the initials are in this case gradually withdrawn, the arrangement keeps the notes uniform from the outset to the end. On a former occasion we pointed out that letter-note was susceptible of much variety, and this is one of the ways in which it can be varied-whether to advantage or otherwise, teachers must decide.

Teachers who may have any suggestions to offer will oblige by forwarding them to the Author, at 20, Paternoster Row, London,

Adbertisements.

The charge for Advertisements is Is. 61. for the first twenty words, and 6d. for each succeeding ten.

TO CORRESPONDENTS.

Write legibly-Write concisely-Write impartially. Reports of Concerts, Notices of Casses. etc., should reach us by the 15th of each month. The name and address of the Sender must accompany

all Correspondence.

The Quaber Composition Classes.

A new postal class, for beginners, will commence the study of Harmony on the 1st of July next. All communications to be addressed :-

The Secretary of The Quaver Composition Classes, 47, Lismore Road London, N. W.

THE QUAVER is published on the 1st of every month. Price One Penny, including from four to eight pages of music printed either in Letter-note or ordinary notation. Post free for twelve months, -one copy 1s. 6d., two copies 2s. 6d.

The Human Bocal System.

By "Vox Humana."

Dreface.

THE design of the following brief articles on Vocal Music is:—

1st, to analyse and systematize vocal truths. 2nd, to name these simply and aptly, while not ignoring the established and well-known vocal technicalities.

3rd, to deduce from true physiological and acoustic data three Voice-training Theories as a scientific abstract of all vocal phenomena.

First.—The theory of Voice Triunity, viz., that the human voice is essentially and demonstrably iriune in its physiological and acoustic basis and formation, having three different resounding cavities and consequently three different resoundings, and being itself the unition of these resoundings.

Second.—The theory of the Entire Longitudinal, with variable latitudinal-degree vibration of the vocal cords, viz., that in the strictly natural or scientifically-trained voice the pitch of every sound is generated and regulated by the vibration of the vocal cords in their unrestricted length-in-tension; while the force of every sound is generated and regulated by the vibration of the vocal cords in their different breadth-degrees-in-tension for every additional air-power-degree impinged on them, from pianissimo to fortissimo.

That all the phenomena of voicing consist simply of voice-strokes, springs, and glides—names which literally describe the only musical and normal actions of the vocal cords and voice-cavities while speaking or singing.

Third.—The theory of Scae Triformity and Triunity, viz., that the One Musical Scale of Nature is essentially and literally an acoustic and harmonic ladder, the "sounds or tones" and "intervenient degrees" of which may be justly and aptly illustrated by the "steps" and "spaces" of an optic ladder as a perfect pictorial analogue. That it is also theoretically and practically triform and triune, being intuitively accepted and recognised as such by the universal musical ear.

That being necessarily variable in its form, though absolutely fixed in its size, it embodies within its vibrational and acoustic range (the limits of which are determined by the vibrations of any given sound halved or doubled) every possible harmonic interval and musical sequence the human ear can appreciate, or the human vocal organs correctly intonate.

That the so-called "Diatonic," "Chromatic," and "Enharmonic" Scales are simply the One

Musical Ladder in three forms, each differing from the other only in the number of its "steps" and "spaces," but all exactly of the same size.

Or, in other words, the One Acoustic and Harmonic Ladder of Nature in its full-toned and completed form contains twenty-two steps and twenty-one intervals, all of which may be represented to the eye by lines and spaces, heard by the ear as interval strokes, springs, and glides, justly intonated by the tensiondegrees of the vocal cords, and conventionally called the "enharmonic scale." When, however, thirteen steps and twelve intervals of the enharmonic form are used, we talk of the "ascending and descending chromatic scale," but when only eight steps and seven intervals (popularly known as the "octave") are used, we then recognise the familiar "diatonic scale" -the first and foundational scale-form of all melody and harmony. There is, however, only One Musical Ladder, the "size" and "forms" of which are absolutely determined by the ear, and intonated by the interval-strokes of the voice, with mathematical precision. It can never be enlarged nor shortened. The socalled "octave" or "replicate" is its first or last step, whatever may be the position in which it may be placed. It is ever the same in vibrational and acoustic magnitude. But like as an optic ladder may be raised or lowered to any practical visible height or depth, so may it also be raised or lowered to any practical audible height or depth, according to the will and ability of its user.

As it is admitted that the musical nomenclature is already too complex and abstruse, the Writer will give to every technical word or phrase used its simple English equivalent.

By the understanding and timely practice of the voice-training principles advocated, any voice may be developed to the utmost compass, flexibility, and power of which it is naturally capable.

Three Voice Apparatuses.

All wind-instruments possess three totally distinct yet thoroughly systematized mechanical apparatuses in order to the production of musical sound, viz., Air-producers, Air-vibrators or Sound-generators, and Sound-resonators or Reflectors.

Precisely is it so with the mechanism of the Human Vocal System. The Lungs are the bellows or air-producers; the chordee vocales by their wonderful and unique action are the

strings, reeds, pipes or keys, or air-vibrators and sound-generators; while the pharyngeal nasal, and oral cavities, balanced and united by the uvula, form one Grand Voice Concavity in which the sounds already generated in the larynx, and already resonated by the three voice-cavities, are simultaneously consonated in perfect balance and unity.

The human vocal system, therefore, viewed as a complete musical wind-instrument, consists of an air-apparatus, a vibrative-apparatus, and a resounding apparatus, so adjusted and conjoined as to produce those "triune sounds" we call: "vowels" or the "human voice."

Hence the simple constituents of voicing

1st, Air (breath)—the one motive element—the primum mobile of all speech and song.
2nd, Vibration—the wonderful immediate

generator of sound and pitch in an instant of

3rd, Resonance (or reflection : resounding, i.e.; additional sympathetic vibration) -the cawities of which, by their varied "forms" and "sizes," produce every possible vowel-sound of hunsan language, from the smallest oval to the largest circular. Besides form and size, vowels have quality, pitch, and force. obtain their form and size from the different configurations of the oral cavity; their quality, from the more or less delicate and refined elasticity of the red lining (mucous membrane) of the vibrators and resonant cavities which produce them: their pitch, from the different tension-degrees of the vocal cords; and their force (or loudness) from the different air-power degrees of the lungs impinged on the relative breadth and thickness degrees of the vocal cords while vibrating unrestrictedly throughout their entire length.

Vowel form and size, therefore, depend upon the oral cavity; quality, upon the sound-resonator; pitch, upon the sound-generator; and force, upon the air-producer. [Fo be continued.

Such of our readers as are familiar with Smart's compositions will feel pleasure in learning that a biography of this eminent musician is now in preparation by Dr. Spark, to whose competent pen the public are also indebted for a short sketch of Smart's career which was reprinted in this and other journals.

Dr. Spark is at present collecting material for the work in progress, and has forwarded us the following circular letter, with the request in which all who can supply noteworthy information will doubtless gladly comply.

HENRY SMART'S BIOGRAPHY.

TO THE EDITOR OF "THE QUAVER."

SIR,—May I be permitted through your columns to say that I have now collected what I think may be deemed the chief points of interest in the late composer's early career, up to the time when he was ap ointed organist of St. Philip's Church, Regent Stree', London; and that any in'ormation of Smart's musical doings, &c., likely to be of use in my account of him, no matter how roughly given, will be gratefully accepted and acknowledged by me.

This opportunity may be taken to express my obli-

This opportunity may be taken to express my obligations to the numerous publishers who have so kindly and generously sent me copies of nearly all the known works of Smart, and from these I have been enabled to compile a catalogue which will prove most interesting and useful to those—and their name is legion—who regard my late lamented friend as one of the greatest English composers.

Faithfully yours, WM. SPARK.

Brook House, Apperley, near Leeds, Jan. 1st, 1880.

Aotes of Enterrogation.

7. What is the literal meaning and recognised musical application of the word "diapason?"

8. Should there not be 15 steps and 14 intervals in the ascending and descending chromatic scales, rather than 13 steps and 12 intervals, thereby carrying out the principle of adding sharps and flats to all the notes of the diatonic scale, instead of 5 only?

9. Is not the descending chromatic scale by flats

9. Is not the descending chromatic scale by flats different from the ascending chromatic scale by sharps, when intonated by a stringed instrument or voice? If so, are they not really two different scales?

J.W.

collision of the collis

an thi

an

the

cul

Recent Monders of Sound.

By W. H. PREECE.

Delivered at the Christmas Lectures of The Society of Arts, London.

HAVE not brought you together to astonish you with new inventions, or to excite your wonderment at some of the advances that have been made of recent years. My principle object is to let every bey and girl who has honoured me with his or her presence this evening, see the advantages to be gained by knowing how to use his or her eyes and hands.

All advances of science are the result of experiment, and experiment is the simple mode by which new facts are brought to our knowledge. A great physician, some hundred years ago or more, lived in the town of perby, and he was the grandfather of a very great man,

who lives now, Mr. Charles Darwin. This old doctor said, that, "a fool is a man who never tried an experiment in his life." I am quite sure that there is scarcely a boy in this room who does not, every day of his life, try an experiment of some kind or other, and therefore there is no fool among my hearers. Every boy has, at some time or other, taken a paper bag, such as the one in my hand, and after blowing it out has burst it between his hands with the view of startling his little sister, or raising a smile from the cook. When he has done this, he has performed an experiment; but it is one thing to experiment, and another thing to draw a

lesson from such experiment; and it is towards the endeavour to exercise your thought, by carrying your minds from the natural effect to its cause that I am more anxious to lead you than to anything else. instance, every boy, as I say, has made an experiment; but has anyone asked himself why it is that clapping one's hands, blowing a whistle, or making a sound in this way (bursting the bag), produces the effect on the brain that is called sound? When the bag is blown out to its full size, and forcibly compressed, there is a condensation of air in it, and then by the bursting of the bag, an expansion, and then by this sudden expansion, a disturbance of the air about us is produced, which has resulted in something being done between you and me. If I take this pop-gun and force dawn the handle rapidly, you hear by the report I have produced a disturbance in the air. Between that pop-gun and every ear in this room there has been a sudden vibration produced. We all know that when a clap of thunder is heard the windows shake; when, in church, the deep notes of the organ are sounded one can feel the pew vibrate; and those of you who in future years travel to such places as the Falls of Niagara, will find that in the neighbourhood of the enormous roar of this water there is heard an incessant and constant vilwation of doors and window sashes. Hence, when we have sound, we must have as a source of production, a sudden disturbance of air. There must be a medium to convey these vibrations, and that medium is the air To appreciate sound, or know when it produced, there is something to receive it, and that medium is the organ of the ear. It follows then that sound and vibrations are concomitant, or similar, things. To convey these vibrations to the ear, they are received by the air in which we live, and move, and This air forms an enormous ocean 50 have our being. miles deep, and we are nothing but crabs and lobsters crawling at the bottom of it. This air swathes our boties, and when it is thrown into vibration, it affects our ears, and this effect is what is called sound. What is this air? We cannot see it. We sometimes feel it, especially latterly, during the heavy gales and wind that have prevailed. Birds fly in it. It maintains the lights before us burning, and keeps us alive. We know that this air is composed of atoms and molecules. will take no notice of the atoms, but will fix our minds on the molecules or clusters of atoms of which the air is composed. This room is the receptacle of more millions upon millions of these molecules than I could count if I were to keep on till to-morrow morning. Every little molecule of air is thrown into motion when sounds are produced, and every motion I make with my lips, and every sound I utter by such motion, strikes your ears, and produces the sound of my voice. To give you an idea how this is done, I have upon this board arranged a series or row of marbles. I have no doubt most of you are acquainted with that highly scientific apparatus, a marbie, and have frequently experimented with it in various ways. That row of That row of marbies represents a row of the molecules of the air that exist between my mouth and your ears, and when I take a marble from the right hand end of the row, and let it fall back into its position again, you will see that almost instantaneously the marble at the end of the left hand side of the row leaves its position and falls back again. If I take two marbles from the right hand and let them fall back, you will notice that two at the left hand are driven off, and so on. So with the molecules of air. Every time I utter a sound the molecules near my mouth are disturbed, and a similar disturbance takes place in your ear. You will see that the action through the row of marbles takes very little time indeed, but with the molecules of air the time taken to produce these movements is perfectly well-known, and the movements are easily measured. The velocity, or time that a sound takes to travei through the air is about 1,100 feet per second. I say "about," because it varies with the temperature. On those bright, brisk days, a short time ago, when we all enjoyed our skating, sound travelled at the rate of On thos about 1,000 feet per second. On those hot, muggy, uncomfortable days, like yesterday, sound travelled about 1,100 feet per second. In water, sound travels very much quicker, being at the ra'e of 5,000 feet a second. With wood it is quicker still, being about 16,000 feet per second. So that the velocity with which sound passes through different media is simply dependent upon the character of the medium, and the ease with which the molecules composing it transmit each other's motion. Bearing in mind the fact that sound travels at the rate of 1,100 feet per second, you can all try an experiment the next time you hear th der. Lightning travels at a rate which is practically infinite; it is, in reality 186,000 miles a second, but it i so fast that you may regard it as instantaneous, and, therefore, the moment you see the flash you know it has just taken place. Sound, travelling at the rate of 1,100 feet per second, takes about 4½ seconds to travel a mile. So that, having seen the flash, if you count

1, 2, 3, 4, 5, and so on (representing seconds) till you hear the thunder, then if it occurs on your counting five, you know that the storm is a mile away, and you can put your head beneath the clothes and be perfectly If, on the other hand, you see the lightning. and the crash follows immediately after, it is very heard the crash solutions in the cause of having such that, having heard the crash, you are all right, for the lightning which caused it has passed away. The speed with which sound travels is the cause of having such things as echoes. Echoes are simply due to the reflection of sound. From the far end of the room, every sound I utter is reflected back to me, but, because the distance is so short, I do not hear any difference between one syllable and another. But if the wall were 1,100 feet away, or rather half that distance, then at the end of each second I should get back the sound that I utter. Hence, it happens that in large halls it is extremely difficult to speak, because the echoes are so confusing. In the Albert-hall, for instance, there is a certain spot on the platform where poor unfortunate speakers stand, and, unless they are up to the secret they get confused in a series of sounds coming from all part the building. But when a speaker there knows what to expect, he regulates his voice, and the echo becomes a guide to him how to send his voice right away up to the ceiling. When I had the pleasure of lecturing there, I heard back every word that I uttered, and waited for it before I gave out a second, and the result was that I succeeded in filling the large area. with my voice, though it is not naturally a very strong

The motion of these particles through the air is in itself an interesting study, but they are very complicated in their action. The nearest approach to the motion that I know of, to give you a mental picture of what takes place in the air, is the swaying of a field of barley. Many of you will remember how the gentle breezes blow the tips of the barley in extremely pretty waves, and the formation which these tips take is almost identically the same as that which the molecules of air take when transmitting sounds. In fact, if divere possible to illuminate this room, and to enable you to see the condition of the molecules of the air, you would see them very much as you see the top of a field of barley, excepting that, as the molecules are so small, you would require an infinitely powerful microscope to see them, whereas in the case of fields of barley you

can exercise your own eyes.

Sounds are produced by the sudden expansion of air. Sounds being transmitted by this wenders

strings, reeds, pipes or keys, or air-vibrators and sound-generators; while the pharyngeal nasal, and oral cavities, balanced and united by the uvula, form one Grand Voice Concavity in which the sounds already generated in the larynx, and already resonated by the three voice-cavities, are simultaneously consonated in perfect balance and unity.

The human vocal system, therefore, viewed as a complete musical wind-instrument, consists of an air-apparatus, a vibrative-apparatus, and a resounding apparatus, so adjusted and conjoined as to produce those "triune sounds" we call: "yowels" or the "human voice."

Allenee the simple constituents of voicing

1st, Air (breath)—the one motive element—the primum mobile of all speech and song.

22nd, Vibration—the wonderful immediate generator of sound and pitch in an instant of time.

3rd Resonance (or reflection : resounding, s.e. undditional sympathetic vibration) -the cawities of which, by their varied "forms" and "Fizes," produce every possible vowel-sound of human language, from the smallest oval to the largest circular. Besides form and size, vowels have quality, pitch, and force. obtain their form and size from the different configurations of the oral cavity; their quality, from the more or less delicate and refined elasticity of the red lining (mucous membrane) of the vibrators and resonant cavities which produce them: their pitch, from the different tension-degrees of the vocal cords; and their force (or loudness) from the different air-power degrees of the lungs impinged on the relative breadth and thickness degrees of the vocal cords white vibrating unrestrictedly throughout their entire length.

Vowel form and size, therefore, depend upon the oral cavity; quality, upon the sound-resonator; pitch, upon the sound-generator; and force, upon the air-producer. [Fo be continued.

SUCH of our readers as are familiar with Smart's compositions will feel pleasure in learning that a biography of this eminent musician is now in preparation by Dr. Spark, to whose competent pen the public are also indebted for a short sketch of Smart's career which was reprinted in this and other journals.

Dr. Spark is at present collecting material for the work in progress, and has forwarded us the following circular letter, with the request in which all who can supply noteworthy information will doubtless gladly comply.

HENRY SMART'S BIOGRAPHY.

TO THE EDITOR OF "THE QUAVER."

Sir,—May I be permitted through your columns to say that I have now collected what I think may be deemed the chief points of interest in the late composer's early career, up to the time when he was ap ointed organist of St. Philip's Church, Regent Stree', London; and that any information of Smart's musical doings, &c., likely to be of use in my account of him, no matter how roughly given, will be gratefully accepted and acknowled, et by me.

This opportunity may be taken to express my obligations to the numerous publishers who have so kindly and generously sent me copies of nearly all the known works of Smart, and from these I have been enabled to compile a catalogue which will prove most interesting and useful to those—and their name is legion—who regard my late lamented friend as one of the greatest English composers.

Faithfully yours, WM. SPARK. 1

5

h

o is

e the lie

E so my you do soi

ex mi

lef

an

cul

dis

the

Brook House, Apperley, near Leeds, Jan. 1st, 1880.

Aotes of Enterrogation.

7. What is the literal meaning and recognised musical application of the word "dapason?"

8. Should there not be 15 steps and 14 intervals in the ascending and descending chromatic scales, rather than 13 steps and 12 intervals, thereby carrying out the principle of adding sharps and flats to all the notes of the diatonic scale, instead of 5 only?

9. Is not the descending chromatic scale by flats different from the ascending chromatic scale by sharps, when intonated by a stringed instrument or voice? If so, are they not really two different scales?

Recent Conders of Sound.

By W. H. PREECE.

Delivered at the Christmas Lectures of The Society of Arts, London.

HAVE not brought you together to astonish you with new inventions, or to excite your wonderment at some of the advances that have been made of recent years. My principle object is to let every boy and girl who has honoured me with his or her presence this evening, see the advantages to be gained by knowing how to use his or her eyes and hands.

All advances of science are the result of experiment, and experiment is the simple mode by which new facts are brought to our knowledge. A great physician, tonic hundred years ago or more, lived in the town of Derby, and he was the grandfather of a very great man,

who lives now, Mr. Charles Darwin. This old doctor said, that, "a fool is a man who never tried an experiment in his life." I am quite sure that there is scarcely a boy in this room who does not, every day of his life, try an experiment of some kind or other, and therefore there is no fool among my hearers. Every boy has at some time or other, taken a paper bag, such as the one in my hand, and after blowing it out has burst it between his hands with the view of startling his little sister, or raising a smile from the cook. When he has one thing, he has performed an experiment; but it is one thing to experiment, and another thing to draw a

lesson from such experiment; and it is towards the endeavour to exercise your thought, by carrying your minds from the natural effect to its cause that I am more anxious to lead you than to anything else. For instance, every boy, as I say, has made an experiment; let his anyone asked himself why it is that clapping one's hands, blowing a whistle, or making a sound in this way (bursting the bag), produces the effect on the brain that is called sound? When the bag is blown out to its full size, and forcibly compressed, there is a con-densation of air in it, and then by the bursting of the bag, an expansion, and then by this sudden expansion, a disturbance of the air about us is produced, which has resulted in something being done between you and me. If I take this pop-gun and force dawn the handle rapidly, you hear by the report I have produced a disturbance in the air. Between that pop-gun and every ear in this room there has been a sudden vibration produced. We all know that when a clap of thunder is heard the windows shake; when, in church, the deep notes of the organ are sounded one can feel the pew vibrate; and those of you who in future years travel to such places as the Falls of Niagara, will had that in the neighbourhood of the enormous roar of this water there is heard an incessant and constant vibration of doors and window sashes. Hence, when we have sound, we must have as a source of production, a sudden disturbance of air. There must be a medium to convey these vibrations, and that medium is the air isself. To appreciate sound, or know when it is produced, there is something to receive it, and that medium is the organ of the ear. It follows then that sound and vibrations are concomitant, or similar, To convey these vibrations to the ear, they are received by the air in which we live, and move, and have our being. This air forms an enormous ocean 50 miles deep, and we are nothing but crabs and lobsters crawling at the bottom of it. This air swathes our bolies, and when it is thrown into vibration, it affects our ears, and this effect is what is called sound. What is this air? We cannot see it. We sometimes feel it, especially latterly, during the heavy gales and wind that have prevailed. Birds fly in it. It maintains the lights before us burning, and keeps us alive. We know that this air is composed of atoms and molecules. will take no notice of the atoms, but will fix our minds on the molecules or clusters of atoms of which the air is composed. This room is the receptacle of more millions upon millions of these molecules than I could count if I were to keep on till to-morrow morning. Every little molecule of air is thrown into motion when sounds are produced, and every motion I make with my lips, and every sound I utter by such motion, strikes your ears, and produces the sound of my voice. To give you an idea how this is done, I have upon this board arranged a series or row of marbles. I have no doubt most of you are acquainted with that highly scientific apparatus, a marbie, and have frequently experimented with it in various ways. That row of marbles represents a row of the molecules of the air that exist between my mouth and your ears, and when I take a marble from the right hand end of the row, and let it fall back into its position again, you will see that almost instantaneously the marble at the end of the left hand side of the row leaves its position and falls back again. If I take two marbles from the right hand and let them fall back, you will notice that two at the left hand are driven off, and so on. So with the molecules of air. Every time I utter a sound the molecules near my mouth are disturbed, and a similar disturbance takes place in your ear. You will see that the action through the row of marbles takes very little time indeed, but with the molecules of air the time taken to produce these movements is perfectly wellknown, and the movements are easily measured. The

velocity, or time that a sound takes to travei through the air is about 1,100 feet per second. I say "about," because it varies with the temperature. On those bright, brisk days, a short time ago, when we all enjoyed our skating, sound travelled at the rate of about 1,000 feet per second. On those hot, muggy, uncomfortable days, like yesterday, sound travelled about 1,100 feet per second. In water, sound travelled about 1,100 feet per second. In water, sound travels very much quicker, being at the rate of 5,000 feet second. With wood it is quicker still, being about 16,000 feet per second. So that the velocity with which sound passes through different media is simply dependent upon the character of the medium, and the ease with which the molecules composing it transmit each other's motion. Bearing in mind the fact that sound travels at the rate of 1,100 feet per second, you can all try an experiment the next time you hear thunder. Lightning travels at a rate which is practically infinite; it is, in reality 186,000 miles a second, but it is so fast that you may regard it as instantaneous, and, therefore, the moment you see the flash you know it has just taken place. Sound, travelling at the rate of 1,100 feet per second, takes about 4½ seconds to travel a mile. So that, having seen the flash, if you conth

1, 2, 3, 4, 5, and so on (representing seconds) till you hear the thunder, then if it occurs on your counting five, you know that the storm is a mile away, and you can put your head beneath the clothes and be perfe easy. If, on the other hand, you see the lightning, and the crash follows immediately after, it is very near. But there is one thing very certain, that, having heard the crash, you are all right, for the lightning which caused it has passed away. The speed with which sound travels is the cause of having such things are schoes. as echoes. Echoes are simply due to the reflection of sound. From the far end of the room, every sound I utter is reflected back to me, but, because the distance is so short, I do not hear any difference between one syllable and another. But if the wall were 1,100 feet away, or rather half that distance, then at the end of each second I should get back the sound that I utter. Hence, it happens that in large halls it is extremely difficult to speak, because the echoes are so confusing. In the Albert-hall, for instance, there is a certain spot on the platform where poor unfortunate speakers stand, and, unless they are up to the secret they get confused in a series of sounds coming from all parts of the building. But when a speaker there knows what to expect, he regulates his voice, and the echo becomes a guide to him how to send his voice right away up to the ceiling. When I had the pleasure of lecturing there, I heard back every word that I uttered, and waited for it before I gave out a second, and the result was that I succeeded in filling the large area with my voice, though it is not naturally a very strong

The motion of these particles through the air is in itself an interesting study, but they are very complicated in their action. The nearest approach to the motion that I know of, to give you a mental picture of what takes place in the air, is the swaying of a field of barley. Many of you will remember how the gentle breezes blow the tips of the barley in extremely pretty waves, and the formation which these tips take is almost identically the same as that which the molecules of air take when transmitting sounds. In fact, if it were possible to illuminate this room, and to enable you to see the condition of the molecules of the air, you would see them very much as you see the top of a field of barley, excepting that, as the molecules are so small, you would require an infinitely powerful microscope to see them, whereas in the case of fields of barley year.

can exercise your own eyes.

Sounds are produced by the sudden expansion of air. Sounds being transmitted by this wendered

Fe

"W

Psa

were

auth

guir

Orc

The

men

the e

o'clo

even

gent

orch

entire of M

T

fifth

festiv

Ches

from

Agne

ist; c

agent

Tillished

in voca

TI

T] for treb

TI are lette

TE

FI

TH

OH

TH

IN

Tw. Teacher

TH the theo

PU

ncludin

Me

T

material, air, we want something to receive the impacts—the movements—of these little molecules, and that is given to us by the ear. On the wall to my right you will see a diagram representing a section of the human ear. Here is the outside of the ear, the shape of which we all know so well. Then there is the inner tubing, and a little way inside this tubing is what we call the drum of the ear. This drum is in fact, a membrane, or disc (a small sized drumhead), which is hit by the molecules every time they are disturbed by the utterance of sound. The character, or nature of the sound is simply dependent upon the way in which it is struck by these little molecules. There is a wonderful and beautiful system of bones that take up these sounds from the drum of the ear, and transmits them to the nervous system, and then to the brain, but we have not to-night to trouble ourselves with what takes place beyond the drum of the ear itself, nor should I attempt to show you, for one very good reason, that I do not know myself, and I do not think that anyone has yet attempted to solve the mystery how it is that the motion of the molecules of the air is transmitted to the brain.

If anybody is anxious to know what sound is, there is a very simple experiment that you can all try. If I put my watch to your ear I hear the ticking of the watch through those molecules hitting the drum of my ear. If I place the watch in my mouth, so as not to let the teeth touch it, I hear nothing, but if I bite the watch, then the ticking comes out as clearly as when the watch is placed close to the drum of the ear, and in this instance the sound is transmitted to the brain, not through the drum of the ear, but through those complicated bones that support the drum and form part and parcel of the organ of hearing.

To be continued.

CPRRESPONDENCE.

VOICE REGISTERS.

To the Editor of the " Quaver."

Sir,—The facts and opinions which "Enquirer" has enunciated deserve careful examination, for they have a very practical bearing upon the teacher's art. The opinions advanced will, perhaps, clash with some commonly received notions: they may, nevertheless, have truth on their side, and for my part I quite agree with them.

The new names for o'd things and facts, which your correspondent animadverts upon, are not needed, and only tend to add to the confusion already existing. The terms "chest voice" and "head voice" are truthful enough, for they aptly describe the facts as they appear to the singer kimself; and this, I hold, is the best way to describe them. 'Even if we were to employ terms which are physiologically true according to the science of to-day, the science of to-morrow might show them to be fall e; and in any case the friction of use would soon reduce them to tatters. Already the brand new terms are beginning to show rents: "thick register" and "thin register" may mean something provided the description is truthful, but when a man begins to talk about his "upper thick" and "lower thin," I conclude that the new nomenclature is made for look but not for wear.

Yours sincerely, SCRUTATOR.

To the Editor of the " Quaver."

Sir,—The matter of Voice Registers, discussed in your recent numbers, is one in which I am much inter-

ested: permit me therefore to contribute a few words upon the subject.

I think "Enquirer" is quite right in holding that there are no breaks—or should be none—in the male natural voice. The only "break" with which I am acquainted is the change from the natural voice to the falsetto, or vice versa.

On the other hand, I am inclined to think that a well trained falsetto is of some use, and has a certain value. To many a cathedral chorister, the falsetto is an important source of income, and many a singer who essays the tenor part would be quite unable to accomplish the work without the aid of his falsetto.

Further, the four different registers and qualities of voice, described as Soprano, Alto, Tenor, and Bass, are so few compared with the registers and qualities of the various instruments which form an orchestra, that I am inclined to ask,—can the composer afford to throw away the additional variety of voice which the falsetto provides, and is not its different quality an important factor in procuring the contrast and variety which he seeks?

Then, lastly, in almost all the Oratorios, except those of recent composers, the choruses have counter tenor rather than contralto, and it appears to me that for such music the part is best rendered by male and female voices intermixed.

Leaving the other points of the discussion to be dealt with by other discussers,

Respectfully yours,
A COUNTER TENOR.

MONTHLY NOTES.

THE following were the more noteworthy performances of new, or revivals of old, choral compositions, during the last month. Prout's "Hereward," at the Crystal Palace. Smart's "Jacob," by the Highbury Philharmonic Society on Dec 15. Gade's "Crusaders" at Finchley, London, on Dec. 15, under the direction of Mr. R. Forsey Brion. Handel's "Semele," at the Bow and Bromley Institute, London, on Dec. 22. Gadsby's "The lord of the Isles," at Brixton, London, on Dec. 22 by Mr. Lemare's Choral Society.

A new weekly paper, "The London and Suburban Official Programme of Amusements" professes to give as complete a list of London indoor and outdoor recreations as the most omnivorous country cousin can desire.

The new "Holborn Town Hall," the site of which is the corner of what was "Liquorpond Street," Gray's Inn Road, London, was opened on Dec. 22nd with a concert under the direction of Mr. J. T. Hutchinson.

At Philadelphia, on November 26th and 27th, in the Permanent Exhibition Building, a grand Welsh Musical Festival was held, Mr. T. W. Mills presiding at the organ.

The Dundee Amateur Choral Union gave their first concert on Dec. 18th, at Kinnsind Hall: the programme included Cherubini's Requiem Mass in C minor, Mendelssohn's

d

n

st

nas he

nd

aird mi's "When Israel out of Egypt came" (CXIV. Psalm), and Schumann's "New Year's Song," were performed.

The Corporation of the City of London has authorized the expenditure of two hundred guineas towards the expenses of the Guildhall Orchestral Society for the season 1879—1880. The society consists of orchestral and vocal members, and has been established for the practice and performance of high class music in the city of London. The orchestral members meet on Monday evenings from 6.30 to 8.30 o'clock; the vocal members meet on Tuesday evenings, from 7 to 8.30 o'clock. Ladies and gentlemen desirous of joining the choir or orchestra may apply to the secretary. The entire musical arrangements are in the hands of Mr. Weist Hill, the conductor.

The Belfast Choral Association opened its fifth season (1879—80) with a grand harp festival on the 9th of January. Mr. John Cheshire and a number of eminent harpists from London and Dublin assisted, and Miss Agnes Larkcom, soprano, was principal vocalist; conductor, Mr. William J. Kempton.

Messrs. Patey & Willis have become the sole agents for supplying music dealers in London

and the provinces with "the Academy Porte Musique" (Thomas's patent). This apparatus does not cause the music to be creased, it is self-closing, and moderate in price,

Messrs. Haines Brothers, of New York, are now making "sectional pianos" for travelling and export. The key-koard and action form one section, and the wrest plank, iron frame, and strings the other. It is said the two sections can be readily taken apart and readjusted.

Messrs. Puttick & Simpson lately sold the autograph M.S. of Handei's opera "Amadigi," for £35 10s., and that of Mozart's Quintet in D major, 39 pp, for 43 guineas. They were from the collection of the late Mr. F. Smee, of the Bank of England.

MUSIC RECEIVED.

The Fairy Queen Waltz-The Chit-Chat Polks, which will receive notice in due course.

OCKE'S MUSIC FOR "MACBETH." All the choruses usually performed, the vocal score only, price one penny, in "Choral Harmony, No. 52.

London: F. Pitman, 20, Paternoster Row. Edinburgh: Johnstone, Hunter, & Co.

LETTER-NOTE EDUCATIONAL WORKS. ETC.

A GRADUATED COURSE of Elementary Instruction in Singing.—By David Colville and George Bentley In this course the sol-ia letters are gradually withdrawn. Price in cloth, gilt lettered, is. 64., in wrapper, is.

THE PUPIL'S HANDBOOK.—Containing the Songs, Exercises and Diagrams in the above course, published separately. In two parts, price 3d. each.

THE LETTER-NOTE SINGING METHOD, Elementary Division.—A course of elementary instruction in vocal music, by David Colville. In this course the notes are lettered throughout. Price, in cloth, gilt lettered, is. 6d., in wrapper, 1s.

THE OHORAL GUIDE.—Containing the Songs, Exercises and Diagrams in the above course, published separately. In two parts, price 3d. each.

THE JUNIOR COURSE.—A course of elementary practice in vocal music, by David Colville. Arranged for treble and alto with ad (10) bass, and suitable for schools or junior classes. In penny numbers.

THE CHORAL PRIMER.—A course of elementary training, by David Colville. In this course the notes are lettered throughout. Price sixpence, in wrapper or in penny numbers.

THE SINGING SCHOOL, -A new work, now appearing in THE QUAVER.

FIRST STEPS IN MUSICAL COMPOSITION,-Now appearing in THE QUAVER.

THE QUAVER, with which is published CHORAL HARMONY, a monthly musical journal, price one penny, aclading from four to eight pages of part-music.

OHORAL HARMONY, a collection of part-music, in penny numbers, of which about 150 are at present issued. Each number contains from four to eight pages, printed either in letter-note or in ordinary notation.

THE PILGRIMS OF OCEAN .- An easy cantata, 32 pages, price 4d.

INTONATORS, 3º.6d. and upwards.-A musical instrument and pattern of tune for teacher or pupil.

TWELVE REASONS FOR LEARNING TO SING AT SIGHT,—A leastlet for gratuitous distribution Teachers can obtain copies, at a nominal charge per dozen or hundred.

THE TRANSPOSITION INDEX.—A card with a moveable index, useful for the purpose of explaining the theory of keys, transposition, modulation, &c. Price 6d.

PUPIL'S CERTIFICATES of Proficiency.—All teachers of the Letter-note Method are urged to use the certificate in their classes as a test and stimulus. Blank certificates, 10d. per dozen, post free.

London: F. Pitman, 20, Paternoster Row. Edinburgh: Johnstone, Hunter & Co.

COLVILLE AND BENTLEY'S

GRADUATED COURSE

OF ELEMENTARY INSTRUCTION IN SINGING, ON THE

LETTER-NOTE METHOD,

note

T

nusi

or in

capita A

'A

·A

'Ad

Adver

'No

notice,

S

opies

FI

w read She sies car

SII

R. J. by St. Jo wood, V

MR. Al

Londor

DE

IN TWENTY-SIX LESSONS.

The Songs are harmonized for Two or Four Voices, ad libitum, adapting the work for either Singing Class or School Training.

This method, which is founded upon the Old English, or "Tonic" mode of solmisation, recognises the principle that there is, in music, really but one Scale, although it may be transposed into many Keyi: consequently, that all keys are, or ought to be, alike easy to the singer. By appending to the notes the initials of the Sol-fa syllables, no corresponding to the key-tone, and gradually withdrawing the letters as the learner proceeds, it trains the eye as well as the ear, enabling the beginner to tell with certainty the "Tonality" or "Key Relationship" of every note, and overcoming the only objection urged against this mode of sol-fa-ing. Whilst, therefore, it affords the pupil all the assistance necessary, it retains the staff, utilizes the important pictorial representation of pitch which it presents, and accustoms the learner from the outset to the musical signs in common use

Price, in limp cloth, gilt lettered, ls. 6d.; in neat wrapper, ls.

The Songs and Exercises, published separately, under the title of "The Pupil's Handbook," in two parts, price 3d. each.

OPINIONS OF THE PRESS.

"Its merit consists in the remarkably clear and simple manner in which the instruction is conveyed, and in the vast amount of important musical knowledge which is condensed into one moderate-sized amphlet."—Evening Star.

"The whole of the elementary instructions bear the impress of an intimate acquaintance, not only with the theory and practice of vocal music, but also with the best means of imparting instruction to the uninitiated, and every line of this part of the work is a step in advance."—Weekly Review.

"We do not know a better or cheaper preceptor."- Witness.

"One of those excellent and cheap Manuals, which all young students and some old ones might with advantage possess . . . It would really not be easy to overrate the value of these very cheap and compendious courses of elementary instruction."—Munical Standard.

"A great deal of care is bestowed on a proper arrangement of the lessons."—Edinburgh Courant.

"Any advantage singers could gain from the sol-fa notation, they appear to possess in this book, with the additional assistance which the staff imports."—Brighton Times.

"We have very seldom indeed met with so good a Manual."-Aberdeen Journal.

"This work is carefully done, and contains a great deal of information on musical matters."-Choir.

"Retains the old notation in its entirety Contains more useful information on the subject than any similar work we have seen."—Northern Warder.

"Great pains have been taken in making this little work useful, as well for self-tuition as for the instruction of pupils in classes."—Orchestra.

"Singing made easy' is, perhaps, the best account we can give of this work."-Glasgow Courier.

"Presenting greater facilities to the vocal student than any which has hitherte fallen under our notice."

—Brighton Examiner.

"The instructions are clear and satisfactory, and are very methodically arranged."-Northern Ensign.

"Combining, as this system does, the advantages of the popular Tonic Sol-fa Methol with the benefits of the ordinary notation, it has that to recommend it which neither of these possess alone. We look for its speedy popularity, and we specially hope that it may be early introduced into our church classes and schools."—English Presbyterian Messenger.

"A rich and economical fund of really good musical instruction." - Yorkshire and Lincolnshire

"It is cheap, simple, effective, and compendious."-Peterhead Sentinel.

"Unites all the advantages of the Sol-sa to the old method."-Border Advertiser.

Admirably fitted to aid in teaching the young to sing."-Montrose Standard.

"We should recommend the Letter-note method, which by engrating the in tials of the sol-fa syllables in the common notes virtually combines both notations."—Good Words.

THE PILGRIMS OF OCEAN, a Pastete (or Cantata compiled from the works of various composers), containing easy and tuneful music which includes solos, duets, choruses, c., 32 pages printed in Letter-note, in wrapper or in penny numbers price fourpence.

'Musical Associations will find this a first-rate pastete, and it cannot fail to be acceptable when rendered to a eneral audience.'-Hamilton News.

'The whole of the music is of a thoroughly popular nature.'-Huntly Express.

From the opening song to the closing chorus, there is not a weak or indifferent piece in it. — Aberdeen Journal. Being printed in Letter-note, it is well adapted for mixed choirs, where some sing the old and others the new -Airdrie Advertiser.

'The performance as a whole is very creditable indeed; and if given as directed, would doubtless be very mach appreciated by an audience.'—Falkirk Herald.

'Sensible vocalists will thank us for directing their attention to this compilation.'—Dumbarton Herald.

'It is quite in the line of well-trained choirs.'—Fifeshire Journal.

'We can heartily commend it to the attention of singing classes.'-Ayr Advertiser.

THE CHORAL PRIMER, a course of elementary training on the Letter-note method. This new work coptains copious illustrations of all the most usual intervals, rhythms, and changes of key: it gives, more concisely than the other Letter-note works, the rudiments of music, but the subject of tonality or "mental effect" is more fully treated. 48 pages, in wrapper or in penny numbers price sixpence.

'The system described as the letter-note method is clearly explained in the Choral Frimer, which also contains expital exercises on time, intervals, and the various major and minor keys.'—Musical Standard.
'Appears to be on the whole a well-arranged course of elementary training.

Some sensible remarks are made on the subject of "mental effects." '—Saturday Musical Review.

Few instruction books contain a larger amount of useful information, or more succinetly put.'—Musical Opinion.

'A plain and effective method of inculcating the art of singing at sight.'—Perthshire Constitutional.

A vast deal of information is presented to the student in a lucid and intelligible manner.'—Stirling Journal.

'Combines the advantages of the old notation and the sol-fa.'—Ayr Advertiser.

'Admirably adapted to promote the progress of good choral music.'—Aberdeen Journal.

'One of the most thorough and intelligible text-books for elementary music that we have seen.' - Fifeshire

'A publication we can confidently recommend to all musicians,'—Alloa J urnal.
'No cheaper or more lucid book of instruction will readily be found.'—Dundee Advertiser.
'Teaches with singular clearness, one thing at a time, and the method is perfect.'—Orcadion.

'Nothing in the most improved methods of teaching the theory and practice of singing is allowed to escape notice, and the explanations are thorough and comprehensive.'—Hawick Advertiser.

London: F. Pitman 20. Paternoster Row. Edinburgh: Johnstone, Hunter & Co.

SPECIAL NOTICE. On and after January 1st, 1880, only the music pages of HE QUVAER will be stereotyped, and, as the letter-press portion will not be reprinted, opies of the latter cannot be obtained after the month's edition is sold out.

FIRST STEPS IN MUSICAL COMPOSITION.

Revised Edition, reprinted from "The Quaver."

Sheet 1, containing paragraphs 1 to 98; sheet 2, 99 to 184; sheet 3, 184 to 201; sheet 4, 201 to 243. ies can be obtained, post free fourpence per sheet, from The Secretary of the Quaver Composition Classes Lismore Road, London, N.W.

SINGING AT SIGHT ON THE LETTER-NOTE METHOD.

R. J. ADLEY, Teacher of Singing on the Letter-note Method, The Park, Tottenham, London, (assisted by Miss Hawkins, Professor of Singing, Pianoforte and Harmonium, certificated at Trinaty College.) St. John's Wood, Ealing, Brentford, Isleworth, Kingston on Thames, Clapham, Backheath, Lewis ham, wood, Woodford, Edmonton, etc.

Mr. ADLEY has unexceptional references which he will be happy to forward, and holds first class testimonials London Colleges.

Address :- Mr. J. Adley, The Bark, Tottenham, London, A.

"Well adapted for the purpose."-Mr. Hullah's official report of the International Exhibition of 1871.

"Nothing will be more useful to the young Sol-fast than commencing the execution of it (just intonation) on an Intonator."—General T. Perronet Thompson in "Just Intonation."

CONATOR

For training to habits of just intonation, and as an aid to the self-teacher.

THE Intonator is an improved variety of the old "monochord," and provides what may be termed a working model of the musical scale or gamut. It presents to the eye a chart or diagram of the scale, with the additional advantage that it possesses the power of producing the sounds which a diagram can only indicate.

As the sounds are obtained by dividing a string upon mathematical principles, they are strictly correct, and the Intonator may be used as a model for the voice. For this purpose it is greatly superior to the pianoforte, which only gives the sounds proximately. also provides examples of sounds which are not to be found on the pianoforte, such as the difference between the sharp and the flat, also the acute and grave forms of several sounds; and as no skill is required to use it, the instrument is specially valuable for purposes of self-teaching.

The Intonator consists of a catgut string, stretched on a sound board or box. The string is raised at one end by resting on a bridge, and is attached to a peg, by means of which it may be raised or lowered in pitch. The sound is produced by twanging the string, after the manner of a gaitar or harp, or by means of a bow, like a violin; the point on the string to be thus operated upon being about an inch from the bridge. The various sounds of the scale are produced by stopping the string at certain points, so as to permit a longer or shorter portion to vibrate. For this purpose frets are placed underneath the string, and the operation consists in pressing down the string until it comes into firm contact with the required fret, when the sound is to be drawn out in either of the ways explained above.

ways explained above.

The frets are labelled with the sol-fa syllables or their initials, or with the numerals 1 to 7: thus DO, or I, corresponds to the key-note,—RE, or 2, to the second degree of the scale,—MI, or 3, to the third degree, etc., and this rule apr lies quite irrespective of the pitch at which the string may be for the time being, for the string performs alike in all keys, and the sounds always remain relatively the same. All keys are, therefore, "natural" upon the Intonator, and the operations of pitching the key, or transposing to another key, consist simply in tightening or slackening the string (by means of the peg) to the required pitch. The pitch of the string can be altered as much as an octave, giving the power of playing in all keys; and on these improved Intonators, by a simple contrivance, provision is made for playing in two or more natural keys without altering the patch of the string. The chromatic sharps or flats, or both, are given on all the Intonators.

LIST 0 F PRICES.

Fuller information, including diagrams representing the fretboards of Nos. 1 and 2, is given in a tract entitles.

"The Intonator and how to use it," price twopence, post free.

The Intonators without sound box are mounted on solid wood: the tone is weak, but sufficient for self-training.

No. 1 INTONATOR, Price 7s. 6d. Without Sound Box, 3s. 6d.

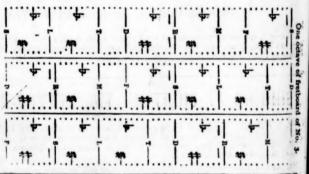
No. I provides for two natural keys without altering the string—viz., the major and minor keys of the same tonic: for example, if the string is pitched at C, the player has the keys of C major and C minor before him in their natural form.

No. 2 INTONATOR, Price 7s. 6d. Without Sound Box, 3s. 6d.

No. 2, in like manner, provides for two natural keys without re-tuning, giving the key at which the string is set and that a fifth higher: for instance, if the string is tuned to C the keys of C and G are present in their natural form.

No. 3 INTONATOR, Price 10s.

No. 3 provides for three natural keys without altering the string— viz., the key at which the string is itched, with those a fourth and a pitched, with those a rounn and fifth higher, as, for example, the keys of C, F, and G: a sliding fresboard permits either of the columns to be brought under the string. All the chromatic sharps string. All the chromatic sharps and flats are given in each column; the short frets to the extreme right, in each column, being the sharps; and those to the extreme left, the flats.



Its

Tre

affor und

it is

LET

with

aid.

staff

symb

the A

and I

matu

UNS music

Sold in connection with the Letter-note Singing Method by

F. PITMAN, 20, Paternoster Row, London, E.C.

